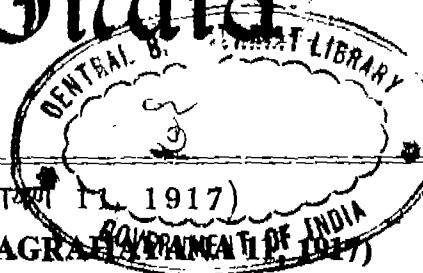




# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY



सं. 48] नई दिल्ली, शनिवार, दिसम्बर 2, 1995 (अग्रहायण 14, 1917)

No. 48] NEW DELHI, SATURDAY, DECEMBER 2, 1995 (AGRAHAYANA 14, 1917)

इस भाग में मिन्न पृष्ठ संख्या की जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 2nd December 1995

ADDRESS AND JURISDICTION OF OFFICES OF THE  
PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial Jurisdiction on a zonal basis as shown below :—

Patent Office Branch, Todi Estates, III Floor, Lower Parel (West), Bombay-400 013.

The State of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFIC".

Patent office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana,  
Himachal Pradesh, Jammu and  
Kashmir, Punjab, Rajasthan  
and Uttar Pradesh and the  
Union Territories of  
Chandigarh and Delhi.

Telegraphic address "PATOFFICE".

Patent Office Branch  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh,  
Karnataka, Kerala, Tamilnadu,  
and the Union Territories of  
Pondicherry, Laccadive,  
Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
"NIZAM PALACE", 2nd M.S.O.  
Building, 5th 6th and 7th  
Floor, 234/4, Acharya Jagadish  
Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पटेंट कार्यालय

एकत्र तथा अभिकल्प

कलकत्ता, दिनांक 2 दिसम्बर, 1995

पटेंट कार्यालय के कार्यालयों के पक्षे एवं क्षेत्राधिकार

पटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है  
सभा बम्हई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं,  
जिनके प्रादौरीक क्षेत्राधिकार जोन के आधार पर निम्न रूप में  
प्रदर्शित हैः—

पटेंट कार्यालय शाखा, टोडी इस्टेंट,  
तीसरा तल, लोअर पर्सेल (पश्चिम),  
बम्हई-400013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं भूष शासित क्षेत्र गोआ, दमन तथा  
दम्बावाणी और नगर दिल्ली।

तार पता—“पटेंटिफिस”

पटेंट कार्यालय शाखा,  
एक से 401 से 405, तीसरा तल,  
गणराज्यिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नहर विल्ली-110005।

गुजरात, हिमाचल प्रदेश, उम्म तथा कर्नाटक  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संबंधित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पटेंटोफिक्स”

## CORRIGENDUM

In the Gazette of India, Part-III Sec-2, dated the 10th June  
1995 :—

- (a) In page-508, column-2 for application for Patent No. 253/Del/89 filed on 17th March, 1989 read the complete date after provisional 15th June, 1990.
- (b) In page-509, column-1 for application for Patent No. 298/Del/89 filed on 30th March, 1989 read the complete date after provisional 22nd June 1989.

APPLICATION FOR PATENT FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGDISH ROSE ROAD,  
CALCUTTA-20.

The dates shown in the crescent bracket are the date claimed under section 135, of the Patent Act, 1970.

31-08-95

1047/Cal/95. Daewoo Electronics Co. Ltd., "Method for controlling a water supply Valve of a Washing Machine," (Convention No. 94-22026 on 01-9-94 in Korea,

पटेंट कार्यालय शाखा,  
61, आलाजाह रोड,  
मध्य-600002।

गुजरात, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संबंधित क्षेत्र पटेंटिफिस, क्षेत्रदील,  
मिनिकार्य तथा एवं नियमित द्वारा।

तार पता—“पटेंटिफिस”

पटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैरेस, दिवारीय बहुतलीय कार्यालय  
भवन 5, 6 तथा 7वां तल,  
234/4, आधार्य जगदीश बोस रोड,  
कलकत्ता-700020।

भारत का अवशेष क्षेत्र।

तार पता—“पटेंटेस”

पटेंट अधिनियम, 1970 या पटेंट नियम, 1972 में अधिकृत सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पटेंट कार्यालय के क्षेत्र उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डिकोडेश या जहां उपयुक्त कार्यालय अवस्थित है; उस स्थान में अनुसूचित बैंक से नियंत्रक को भुगतान योग्य संकेत ड्रॉफ्ट अथवा बैंक इकाया की जा सकती है।

1048/Cal/95. (1) Kawasaki Jukogyo Kabushiki Kaisha (2) Sumitomo Osaka Cement Co. Ltd., sintering method of cement clinkers and sintering apparatus of the same. (Convention No. 06-240686 on 08-09-94; in Japan).

1049/Cal/95. Omnipoint Corporation. Method and apparatus for serial non-coherent correlation of a spread spectrum signal.

04-09-95

1050/Cal/95. Daewoo Electronics Co. Ltd. Improved apparatus for encoding/decoding a video signal.

1051/Cal/95. Oversby Pty Ltd. Grooved Phaco-emulsification needle. (Convention No. PM 7844 on 02-09-1994 in Australia, and Convention No. 08/486, 861 on 07-6-1995 in U.S.A.).

1052/Cal/95. Asgrow Speed Company. Transgenic plants expressing ACC Oxidase genes. Genes. (Convention No. 08/300, 335 on 02-09-1994; in U.S.A.).

1053/Cal/95. Sumitomo Chemical Company, Limited. Process for producing 4-Carnediol. (Convention No. 06-217662; 06-226951; 06-245991; dated are 12-9-94; 21-9-94; 12-10-94; in Japan respectively)

1054/Cal/95. Keiper Recaro GmbH & Co. Locking device for Car seats. (Convention No. P4436221.8; on 11-10-94; in Germany).

1055/Cal/95. Molex Incorporated. Polarizing system for a blind mating electrical connector assembly. (Convention No. 08/308, 225; on 19-9-94; in U.S.A.).

05-09-1995

1056/Cal/95. Sri Bikram Dutta Roy. Fuel saving & pollution control device.

1057/Cal/95. James R Powell, Gordon T Danby, and John Morena. Electromagnetic induction suspension and Horizontal Switching system for a vehicle on a planar guideway.

1058/Cal/95. Croma Industries Limited. A Float arm interconnection mechanism. (Convention No. PM-8030; on 7-9-94; in Australia).

1059/Cal/95. Themtich A/S. Thermomechanical and hydrogenation. (Convention No. 943367; on 12-9-1994; in Norway).

1060/Cal/95. Daewoo Electronics Co. Ltd. Laser Beam Modulation apparatus.

1061/Cal/95. Crofield Limited. Granular Compositions. (Convention No. 9510372.7; on 23-3-1995; in United Kingdom).

1062/Cal/95. Nadia Basak. Plastic element.

प्रकल्प सूचना के साथ अधिकार प्रोटोटाइप नियम, 1972 के विषयम् 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही कालाल किए जाने चाहिए।

"प्रत्येक विनिकरण के सदर्भ में नीचे दिए गयीं करण, भारतीय करीकरण तथा अंतरराष्ट्रीय करीकरण के अनुसर हैं।"

ग्राम्यकरण (विभिन्न धाराओं) की कोटों प्रतियां पर्याप्त हैं, के साथ विनिकरणों की उन्नीकरण अभ्यास कोटों प्रतियां की अत्यधिक प्रत्याप्त कार्यालय, कलकत्ता अधिकार उपयोग साक्षा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार जूसे उक्त कार्यालय से प्रत्येक विवाह द्वारा सुनिश्चित करने के लियारास उत्तरी बदायगी पर की जा सकती है। विनिकरण की पृष्ठ सेक्ष्या के साथ प्रत्येक स्वीकृत विनिकरण के सामने नीचे वर्णित विभिन्न धाराओं के जीवकर जैसे 2 से गुण करके, (स्थानिक प्राप्तेक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है); प्रोटोटाइप नियम प्रभार का परिकलन किया जा सकता है।

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of Patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form-14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents at the appropriate office on the prescribed Form-15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule-36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian classification and International Classification.

Typed or photo copies of the specifications togetherwith photo copies of the Drawings, if any, can be supplied by the Patent Office, Calcutta or the appropriate Branch Office on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by two to get the charges as the copying charges per page are Re. 2/-.

स्वीकृत, द्राम्यानि विवरण

एतत्वद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में स्वीकृत विवरण का विवरण के लियारास कोइराक कोइराक विवरण, इसके नियम की तिथि से बार (4) महीने या अतिक्रमित से अधिक तो तक 4 महीने की अवधि की समाप्ति के पूर्ण प्रटोटाइप नियम, 1972 के लियारास विहित प्रभार 2/- पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र एवं उपर्युक्त कार्यालय में एसे विवरण की सूचना विहित प्रभार 15 पर होकर है। विवरण सम्बन्धी सिद्धित वक्तव्य,

Cl. : 62 A 4: B : 2.

175961

Int. Cl.4 :- F 04 B 27/00.  
F 24 F 3/00,

#### A SCROLL COMPRESSOR

Applicant: UNITED TECHNOLOGIES CORPORATION  
OF 1 FINANCIAL PLAZA, HARTFORD, CONNECTICUT  
06101, UNITED STATES OF AMERICA.

#### Inventors:

- (1) JEFFREY JAMES NIETER.
- (2) RAYMOND LEON DEBLOIS.

Application No. 864/Cal/1989; filed on 18th October 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

#### 2 Claims

Scroll compressor comprising a support;

a drive shaft having a main portion centered on an axis and an eccentric crank portion transversely offset from said axis;

a bearing means for supporting said main portion of said axis;

bearing means for supporting said main portion of said shaft on said support for rotation about said axis;

a fixed scroll element mounted on said support so as to be stationary relative thereto at least as far as rotation about said axis is concerned;

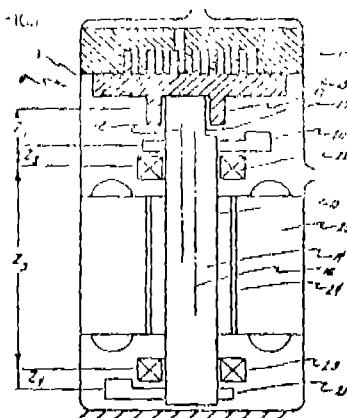
an orbiting scroll element mounted for orbiting motion relative to said fixed scroll element, bounding therewith at least one compression space, and acted upon by said crank portion of said drive shaft;

means for admitting a medium to be compressed into and for discharging said medium from said compression space; means for rotating said drive shaft about said axis for said crank portion to cause said orbiting scroll element to conduct said orbiting motion with said medium being compressed in said compression space prior to its discharge with attendant exertion of a resultant pressure force by said medium on said orbiting scroll element and transmission of such force to said crank portion of said drive shaft, and application to said drive

shaft of inertial forces resulting from rotation around said axis of eccentric masses of said drive shaft and said orbiting scroll element; and

balancing means including at least two counterweights mounted on said drive shaft at mutually opposite sides of said bearing means for joint rotation with said drive shaft about said axis, each of said counterweights having such a mass and angular position about said axis that the counteracting inertial force exerted thereby on said drive shaft takes into account not only all of the inertial forces acting on said drive shaft but also said pressure force for said counterweights to substantially compensate for the combined effect of all other eccentric masses and of said resultant pressure force on said bearing means at least when said drive shaft rotates at a predetermined speed;

each of said counterweights including a main counterweight member mounted for joint rotation with said drive shaft about said axis and an auxiliary counterweight member mounted on said main counterweight member, characterized in that said auxiliary counterweight member is mounted to said counterweight member for movement relative thereto along a predetermined path having at least a portion that circumferentially deviates from radial direction of said drive shaft and that means are provided for resiliently urging said auxiliary counterweight member to a predetermined position along said path such that said auxiliary counterweight member is displaceable by centrifugal forces acting thereon during the rotation of said drive shaft out of said predetermined position and into another position along said path depending on the speed of rotation of said drive shaft, the force exerted on said auxiliary counterweight member by said urging means, the mass of said auxiliary counterweight member and the course of said path being such that the balancing effect of said balancing means is in effect over a wide range of speeds of rotation of said drive shaft.



(Compl. Specn. 20 pages;

Drgns. 6 sheets)

Cl. : 40 (c)

175962

Int. Cl.<sup>4</sup> C 08 L 33/24.

#### A DELAYED GELABLE COMPOSITION.

Applicant: PHILLIPS PETROLEUM COMPANY OF BARTLESVILLE, STATE OF OKLAHOMA, UNITED STATES OF AMERICA.

Inventor: AHMAD MORADI-ARAGHI.

Application No. 231/Cal/1990; filed on 21st March 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

7 Claims

A delayed gelable composition for altering the permeability of a high temperature subterranean formation which comprises:

(a) water;

- (b) at least one water-dispersible acrylamide-containing polymer; and
- (c) a water-dispersible crosslinker comprising an aldehyde and a salicylic acid derivative which is salicylamide or acetylsalicylic acid;

wherein said acrylamide-containing polymer (b) is present in said composition in an amount in the range of from 0.05% to 5.0% by weight, said aldehyde and said salicylic acid derivative of said crosslinker (c) are each present in said composition in an amount in the range of from 0.2% to 2.0% by weight, and the weight ratio of said aldehyde to said salicylic acid derivative is in the range of from 1:20 to 20:1.

(Compl. Specn. 20 pages;

Drgns. Nil)

Cl. : 123.

175963

Int. Cl.<sup>4</sup> : C 05 F 1/00, 3/00, 7/00,  
9/00, 11/00.

#### METHOD AND APPARATUS FOR PRODUCING ORGANIC BASED HUMIC ACID FERTILIZER.

Applicant: RELAND INDUSTRIES, INC. OF P.O. BOX, 27, PARAGONAH, UTAH UNITED STATES OF AMERICA.

Inventor: ELMO C. ROBINSON.

Application No. 824/Cal/1990; filed on 21st September 1990.

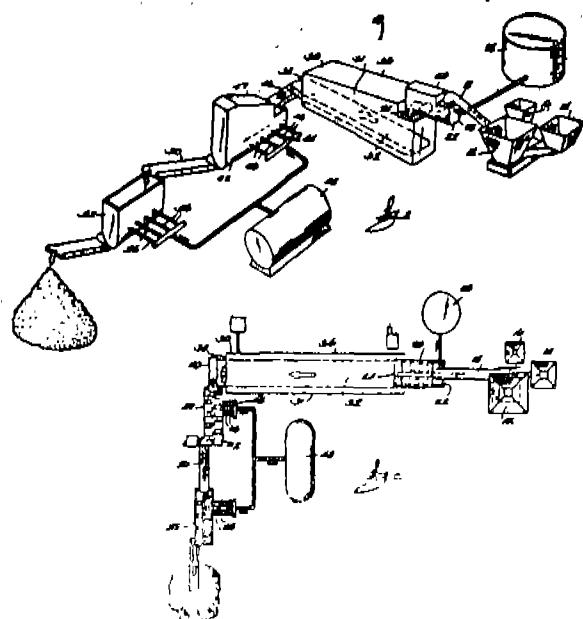
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

17 Claims

A method for producing an organic based humic acid fertilizer of the kind containing a predetermined amount of an available inorganic material selected from the group consisting of nitrogen, phosphate, potash, sulfur, calcium, and trace materials and mixtures thereof from inorganic/organic material, inorganic acid and base, such as herein described, characterised in the process comprising the steps of :

- (a) mixing with the organic material a sufficient amount of the inorganic material to provide said predetermined amount of said inorganic material in the fertilizer product, the mixture having a moisture content of at least about 12% to about 40% by weight based on the total weight of the organic material;
- (b) blending with the mixture a sufficient amount of an inorganic acid such as herein described to obtain a reduction in pH of the mixture to about 1.0 or less and to cause chemical breakdown of the mixture;
- (c) allowing the blended mixture to cure for a sufficient period of time to break down the organic material;
- (d) blending with the cured mixture a sufficient amount of a base material such as inorganic base to raise the pH level to a pH level greater than the pH level of the cured mixture; and
- (e) blending with the mixture produced in step (d) additional base material to raise the pH level of the

resulting mixture to a predetermined level within the range of 4 to 8, desired for the finished fertilizer product.



(Compl. Specn. 19 pages;

Drgns. 1 sheet)

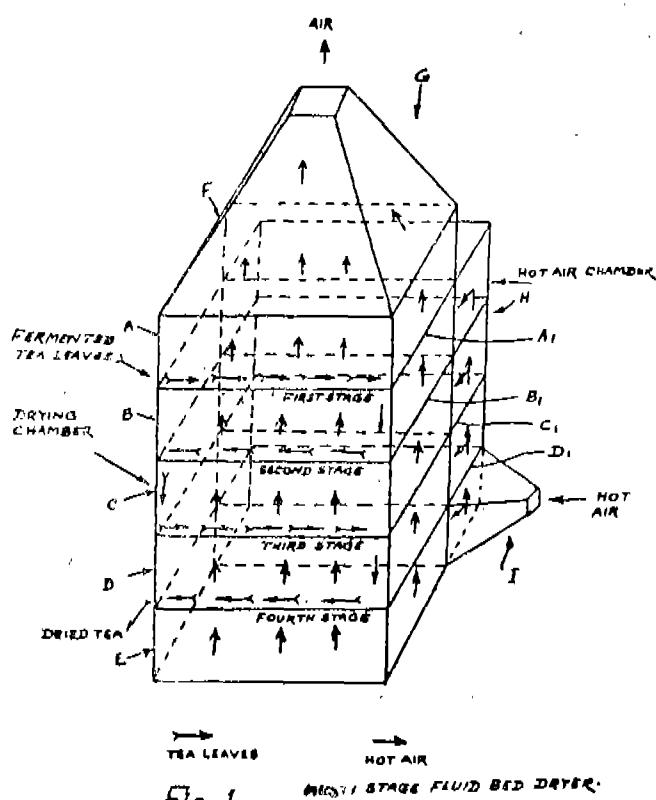


Fig. 1

MULTISTAGE FLUID BED DRYER.

Cl. : 185 C; 61 A, E, H.

175964

175965

Int. Cl.<sup>4</sup> : A 23 F, 3/000.

**A METHOD FOR MULTISTAGE FLUIDIZED DRYING OF FERMENTED TEALEAVES AND APPARATUS THEREFOR.**

Applicant: TATA TEA LTD. OF No. 1 BISHOP LEE ROY ROAD, CALCUTTA-700020, WEST BENGAL, INDIA.

Inventor: PALACHARLA RAMAKRISHNA.

Application No. 889/Cal/1990; filed on 19th October 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**14 Claims**

A method for multistage fluidized drying of fermented tea-leaves which comprises subjecting fermented tea-leaves to a first stage of partial drying in a fluidized manner by means of hot-air leaving the next (second) advanced stage of fluidized further partial drying of already partially dried fermented tea-leaves, the hot air used for drying in the different stages flowing from underneath the moving bed of tea-leaves, the tea-leaves and hot air flowing in a counter-current direction, the successive partial drying being continued in a multistage operation depended upon the moisture content of tea-leaves temperature of hot air and drying conditions, the temperature of hot air from the first stage to the other succeeding stages being progressively higher and the extent of partial drying of tea-leaves increasing from stage to stage.

Cl. : 145-E-2 &amp; 3.

Int. Cl.<sup>4</sup>, D 21 C 9/10, 9/153.  
D 21 D 3/00.

**METHOD FOR THE PRODUCTION OF CHLORINE-FREE BLEACHED PULPS.**

Applicant: LENZING AKTIENGESELLSCHAFT OF WERKSTRABE, A-4860, LENZING, AUSTRIA.

Inventors:

- (1) SIXTA HERBERT.
- (2) GOTZINGER GERHARD.
- (3) HOGLINGER ANTON.
- (4) HENDEL PETER.
- (5) RUCKL WILFRIED.
- (6) PETER WALTER.
- (7) KURZ FRIEDRICH.
- (8) SCHRITTWIESER ALFRED.
- (9) SCHNEEWEISZ MANFRED.

Application No. 913/Cal/1990; filed on 29th October 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**6 Claims**

A method for the production of chlorine-free bleached pulp in particular of dissolving pulps, for example hardwood pulps, or of paper pulps, for example softwood pulps from darkly coloured un-bleached pulp thereof, by means of ozone bleaching in which a pulp suspension at a temperature of 15 to 80°C preferably 40–70°C and with a pH value of 1-8, preferably 2-3, is brought into contact with a conventional ozone-containing gas with intensive stirring or mixing, wherein the ozone-containing gas contains 20–300 g/M<sup>3</sup> preferably 50–150 g/m<sup>3</sup> ozone and wherein at the most 2% mass, preferably 0.05–0.5% mass ozone in relation to dry

pulp is used characterized in that pulp suspension has a consistency of 7-15% mass and that the ozone-containing gas is introduced into the pulp suspension at a pressure of 1.1-15 bar, preferably 1.1-10 bar.

(Compl. Specn. 26 pages;

Drgns. 1 sheet)

Cl. : 208

175966

Int. Cl. : C 09 D 11/00, 11/20.

**AN ENGRAVED STEEL DIE PRINTING INK SUITABLE FOR PRINTING OF BACKS AND FACES OF SECURITY DOCUMENTS.**

Applicant : SICPA HOLDING SA, OF BURGSTRASSE 17, CH-8750 GLARUS, SWITZERLAND.

Inventors :

- (1) PHILIPPE AMON.
- (2) HAIM BRETLER.
- (3) ANTON BLEIKOLM.
- (4) OLIVIER ROZUMEK.
- (5) PIERRE DEGOTT.

Application No. 985/Cal/1990; filed on 21st November 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**10 Claims**

An engraved steel die printing ink suitable for printing of backs and faces of security documents, containing at least one organic polymerizable binder material of weight % less than or equal to 60 and at least one colour pigment of weight % less than or equal to 60 and optionally extenders and/or fillers, and having a viscosity of at least 1 Pa.s at 40°C at a shear rate of about 1000 sec<sup>-1</sup>, wherein said binder material contains at least one compound capable of being polymerized, during the post printing curing operation on the substrate printed with the ink, according to a cationic reaction mechanism initiated by an energy sensitive polymerization initiator capable of liberating cationic starting compound under the influence of applied energy.

(Compl. Specn. 24 pages

Drgns. Nil)

Cl. : 206 E.

175967

Int. Cl. : H 04 N 5/14.

**AN APPARATUS FOR GENERATING A FIELD TYPE INDICATING SIGNAL IN A VIDEO SIGNAL PROCESSING SYSTEM.**

Applicant : THOMSON CONSUMER ELECTRONICS, INC. OF THE STATE OF AMERICA OF 600 NORTH SHERMAN DRIVE, INDIANAPOLIS, INDIANA 46201, UNITED STATES OF AMERICA.

Inventor : BARTH ALAN CANFIELD.

Application No. 213/Cal/1991; filed in 12th March 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**6 Claims**

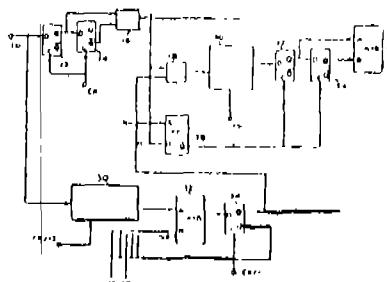
An apparatus for generating a field type indicating signal in a video signal processing system for processing video signal having first and second alternating field types, said first and second field types comprising horizontal and vertical signal components and differing with respect to a timing relationship of their respective horizontal and vertical signal components comprising :

means (30-34) for providing a vertical signal corresponding to said vertical component;

means (12-16) for providing a horizontal signal corresponding to said horizontal component;

means responsive to said vertical and horizontal signals for measuring an interval between a transition of said vertical signal and a predetermined transition of said horizontal signal and providing a measurement value; and

means (20) for comparing measurement values from successive fields of video signal to provide a field type indicating signal.



(Compl. Specn. 11 pages;

Drgns. 2 sheets)

Cl. : 36 A1

175968

Int. Cl. : F 03 B 11/02.

**A CENTRIFUGAL PUMP.**

Applicant : KSB AKTIENGESELLSCHAFT OF POSTFACH 1725 JOHANN-KLEIN-STRASSE 9, 6710 FRANKENTHAL, FEDERAL REPUBLIC OF GERMANY.

Inventors :

- (1) KARLHEINZ BECKER.
- (2) GUNTER PFEIFFER-MULLER.

Application No. 188/Cal/1991; filed on 01st March 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

**8 Claims**

A centrifugal pump comprising an outer housing with a lateral delivery connection, an inner housing bearing a pump shaft with an impeller mounted thereon, the outer diameter of the inner housing increasing in size from the impeller outlet towards the delivery connection, a flow guiding element within the flow space between the inner and the outer housing such element being provided with an onflow edge and following flow guiding surfaces, characterised in that

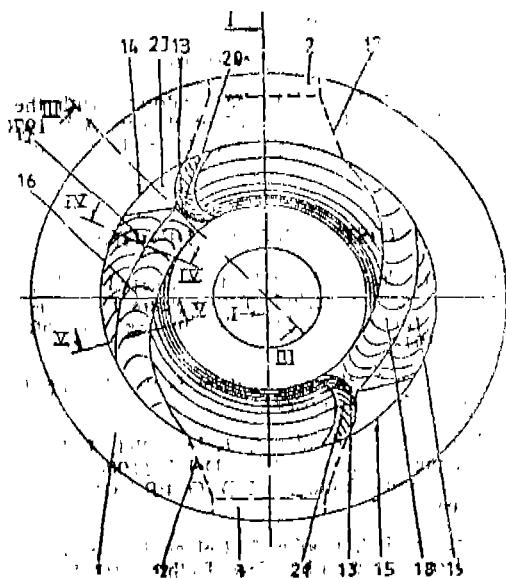
—atleast one of the onflow edge (13) and the onflow surface (23) of each element (14 & 15) is arranged with a lateral offset in relation to a center point of the delivery connection in the direction of rotation of the impeller (7);

—starting at atleast one of the onflow edge (13) and the onflow surface (23), atleast two flow guiding surfaces with different slopes;

—the flow guiding surface extending in the direction of rotation of the impeller (7) has a small slope and the flow guiding surface (16 through 19) extending opposite to the direction of rotation of the impeller (7) and the flow guiding surface (20) & (21) placed closest to a delivery connection (2 & 3) has steep slope; and

—in accordance with the number of the delivery connections (2 & 3), atleast one guiding element is provided.

Fig. 2



**CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970**

The Claim made by NATIONAL DAIRY DEVELOPMENT BOARD under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 475/Cal/89 (172853) in their name has been allowed.

The claim made by PHILIP BRANDON TAVENER AND SALLY TAVENER under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 172858 in their name has been allowed.

The claim made by TATA IRON AND STEEL COMPANY LIMITED under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 173213 in their name has been allowed.

The claim made by WESTFALIA BECORIT INDUSTRIECHNIK GmbH under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 173386 in their name has been allowed.

**OPPOSITION PROCEEDINGS**

An opposition entered by Polar Fan Industries Ltd. to the grant of a Patent on application No. 169541 (456/Del/87) Ante-dated to 15th May 1985 has been allowed and No Patent shall be granted.

An opposition entered by M/s Polar Fan Industries Ltd. to the grant of a patent application No. 169584 (455/Del/87) Antedated to 15th May 1985 has been allowed and No PATENT shall be granted.

**AMENDMENT PROCEEDINGS UNDER SECTION 57**

The amendments proposed by WPLU HOLDINGS PROPRIETARY LIMITED, in respect of Patent Application No. 131/MAS/87 (168697) under Section 57 of the Patents Act, 1970 for change of name have been allowed.

The amendments proposed by OWNES-ILLINOIS INC., in respect of patent Application No. 238/MAS/87 (169346) under Section 57 of the Patents Act, 1970 have been allowed.

Also the application has been allowed to proceed in the claimant's name, i.e. "OWNES-BROCKWAY GLASS CONTAINER INC" under Section 20(1) of the Patents Act, 1970.

Proposed amendments under section 57, of the Patents Act, 1970, in respect of Patent Application No. 374/MAS/88 (171504) for change of name of the Company, i.e. NORTHERN TPI ECOM EUROPE LTD., England, has been allowed.

**RENEWAL FEES PAID**

155184 155299 157396 157507 158837 159026 159041 159316  
159983 160478 160479 160753 161649 162097 162627 162915  
163187 163395 163445 163588 164457 164487 164521 164529  
164989 166067 169591.

**CESSATION OF PATENTS**

163492 163493 163494 163496 163528 163537 163554 163579  
163581 163590 163611 163618 163648 163708 163717 163723  
163735 163736 163737 163744 163754 163765 163787 163803  
163812 163814 163817 163835 163854 163863 163874 163886  
163893 163901 163918 163927 163929 163932 163935 163940  
163945 163969 163981 163984 163985 163996 164013.

**PATENT SEALED ON 03-11-95**

160884 168058 174961 175033 175035 175036 175038  
175039\*D 175041 175042 175043 175045 175047\* 175048  
175049 175050 175051 175052 175053 175056 175057 175058  
175059\*D 175060 175069.

CAL-13, DEL-02, BOM-NIL, MAS-10

\*Patent shall be deemed to be endorsed with the words LICENCE OF RIGHT Section 87 of Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—Drug.

**REGISTRATION OF DESIGNS**

The following designs have been registered. They are not open to inspection for period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration included in the entries.

Class 1. No. 168674, Cooke & Kelvey Pvt. Ltd., 3-Scindia House, Janpath, New Delhi 110001, an Indian company, India, "PHOTO FRAME", 27th January 1995.

Class 1. No. 168657, Cooke & Kelvey Pvt. Ltd., 3-Scindia House, Janpath, New Delhi 110001, an Indian Company, India, "HEAVY CHASED BOWL", 20th January 1995.

Class 1. No. 169046, Cooke & Kelvey Pvt. Ltd., 3-Scindia House, Janpath, New Delhi 110001, an Indian Company, India, "SINGLE PEN STAND", 21st April 1995.

Class 1. No. 169047, Cooke & Kelvey Pvt. Ltd., 3-Scindia House, Janpath, New Delhi 110001, an Indian Company, India, "DOUBLE PEN STAND", 21st April 1995.

Class 1. No. 169048, Cooke & Kelvey Pvt. Ltd., 3-Scindia House, Janpath, New Delhi 110001, an Indian Company, India, "CIGARETTE BOX", 21st April 1995.

Class 1. No. 168891, Usha International Ltd. Surya Kiran Building, 19, Kasturba Gandhi Marg, New Delhi 110001, India, "EXHUST FAN", 6th March 1995.

Class 1. No. 168829, Mr. Nagar Andal Anantharaman Naidu Prop of Sri Ananda Type Foundry, Koppikar Road, Hubli 580020, India, a proprietor firm, "KANNADA TYPEFAUNTS 6 PTS to 72 PTS." 20th February 1995.

Class 1. No. 168822, Vergola International Pty Ltd., of 13 Watervale Drive, Greenfields, South Australia, Australia, "LAUVRE BLADE", 17th February 1995.

Class 3. No. 168602, Oram GmbH, Hellabrunner Str. 1, 81543, Munchen, Germany, "FLASHLIGHT", 9th January 1995.

Class 3. No. 168762, Oakley, Inc., a corporation organised and existing under the laws of the State of California, U.S.A., of 10 Holland Irvine California 92718 U.S.A., "EYEFAR COMPONFNT", 6th February 1995.

R. A. ACHARYA,  
Controller General of Patent,  
Design & Trade Marks